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Granite City
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REILLY TAR & CHEMICAL CORPORATION

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January 14, 1985

EPA Region 5 Records Ctr.



393302

Mr. Mark Haney
Illinois EPA
Division of Land Pollution Control
2200 Churchill Road
Springfield, Illinois 62706

Dear Mr. Haney:

At our December 19, 1984 meeting you expressed some concern as to the justification of the extent of the main aquifer plume boundary on Figure 8 of our assessment program. Since that time I have discussed it with our consultant and received the following reply.

"This boundary was interpolated by us from results in six multilevel samplers in two locations (MLS-9 and MLS-11). Based on the presence of both elevated phenol and chloride concentrations in MLS 9-1 and MS 9-2 and relatively lower concentrations in MLS 11-2, with phenol being undetectable, the boundary was placed half-way between the two locations. MLS 11-1 samples ground water from the finer shallow portion of the aquifer. The boundary placement was also inferred from the northwesterly ground water flow direction which has been estimated from ground water surface elevations at the site.

The inferred boundary could also be placed as shown in the attached Figure 1 if preferred by the agency. This interpretation is also consistent with the data and is a more conservative interpretation. In our opinion, the difference in boundary placement 150 feet further south has no regulatory significance."

If your agency feels more comfortable with the conservative estimate shown in the attached Figure 1, then we can incorporate it in our submission. I do agree however with our consultant that the placement of the plume boundary further south has no significance from a regulatory standpoint since it does not extend past the proposed regulated boundary.

Very truly yours,

REILLY TAR & CHEMICAL CORPORATION

W. A. Justin
W. A. Justin

Director Environmental Control

WAJ/bk

Attach.

cc: Mr. D. Trieff
Mr. L. L. Pirtle

Mr. R. Polack
Dr. P. M. Rivers

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